PATENT COOPERATION TREATY

PCT

REC'D 0 5 JUL 2004

INTERNATIONAL PRELIMINARY EXAMINATION POT

(PCT Article 36 and Rule 70)

International application No. Int				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
				International filing date 18.06.2003	(day/mont	th/year)	Priority date (day/month/year) 19.06.2002			
Interna C07C			ent Classification (IPC) or bo	th national classification a	and IPC					
Applica NOV		IS A	G et al					••		
1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.									
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.									
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or draw been amended and are the basis for this report and/or sheets containing rectifications made be (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					rectifications made before this	hich have Authority				
•	These annexes consist of a total of sheets.									
з.	This report contains indications relating to the following items:									
		Ø	Basis of the opinion		•••••					
:	, 11		Priority							
	'' 111		•	ninion with regard to n	ovalty in	wantive stan	and industrial applicability			
	IV		Lack of unity of invention	•	Overty,	Mentine steb	and moustial applicability			
	٧	Ø	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
,	۷ì		Certain documents cite	ed						
	VII		Certain defects in the in	nternational application)					
,	VIII		Certain observations o	n the international appl	ication					
Date of submission of the demand						completion of	this report			
20.11.2003						02.07.2004				
Name and mailing address of the international						zed Officer	 			
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d						aier, W	. Uwall	ON E		
	<u> </u>		k: +49 89 2399 - 4465		Telepho	one No. +49 89	2399-8327	Standone online . office		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/06483

 Basis of the repe 	ort
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages								
	1-4	6	as originally filed							
	Cla	ims, Numbers								
		-								
	1-3	1	as amended (together with any statement) under Art. 19 PCT							
2.	With lang	Vith regard to the language , all the elements marked above were available or furnished to this Authority in the anguage in which the international application was filed, unless otherwise indicated under this item.								
	The	These elements were available or furnished to this Authority in the following language: , which is:								
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).							
		· · · · · · · · · · · · · · · · · · ·								
		the language of a tra Rule 55.2 and/or 55.	nslation furnished for the purposes of international preliminary examination (under 3).							
3.	Witi inte	Vith regard to any nucleotide and/or amino acid sequence disclosed in the international application, the nternational preliminary examination was carried out on the basis of the sequence listing:								
		contained in the inte	rnational application in written form.							
		filed together with th	e international application in computer readable form.							
		furnished subsequer	ntly to this Authority in written form.							
		furnished subsequently to this Authority in computer readable form.								
		The statement that to in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.							
		The statement that the information recorded in computer readable form is identical to the written se listing has been furnished.								
4.	The	e amendments have resulted in the cancellation of:								
		the description,	pages:							
		the claims,	Nos.:							
		the drawings,	sheets:							
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).								
		(Any replacement sh	neet containing such amendments must be referred to under item 1 and annexed to this							
6.	Add	itional observations, i	f necessary:							

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/EP 03/06483

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

1-31

No:

Claims

Inventive step (IS)

Yes: Claims

Claims No:

1-31

Industrial applicability (IA)

Yes: Claims

1-27, 31

No: Claims 28-30

2. Citations and explanations

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

For the assessment of the present claims 28-30 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

D1: DE-A 28 54 932

D2: JP-A 04 321671 (abstract)

novelty

The subject-matter according to claims 1 to 31 is novel pursuant to art. 33(2) PCT.

None of the documents of the available prior art according to the ISR discloses Nsulphonylaminoacetonitriles of general formula (I) as claimed.

inventive step

The subject-matter according to claims 1 to 31 seems not to be based on an inventive step pursuant to art. 33(3) PCT.

Substituted aminoacetonitriles as pesticides are known from D1, D2 (see also the present page 2, 3rd paragraph). In view of the closest state of the art D1, the problem posed is the provision of further pesticidal active compounds. This is solved by the present N-sulphonylaminoacetonitriles of general formula (I) according to claim 1. At present however no experimental data are available in order to show that the compounds as claimed indeed exhibit the above alleged activity. The "biological examples" on pages 45 and 46 solely state that the compounds of table 1 exhibit good activity. In the absence of these data however, an inventive step can not be assessed. In addition it is noted that these results only refer to compounds (I) with -(CR_5R_6 -X)- R_1 is **EXAMINATION REPORT - SEPARATE SHEET**

a -(CH₂O)-Ph moiety (see page 26 of the description) whereas this moiety as claimed embraces a huge variety of substituents according to claim 1. Thus, it is doubtful whether the problem posed is solved over the whole area as claimed. Having in mind that small structural changes may significantly influence the activity of the compounds in question, a generalization of the tested derivatives of (I) to the compounds as claimed is not justified.

industrial applicability

Claims 28-30 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

further remarks

- Contrary to the requirements of Rule 5.1(a)(ii) PCT, a document reflecting the prior art described on page 2, 3rd paragraph is not identified in the description and the relevant background art disclosed in the documents D1 and D2 is not mentioned nor are these documents identified therein.
- The description is not adpated to the claims as required by Rule 5.1(a)(iii) PCT.